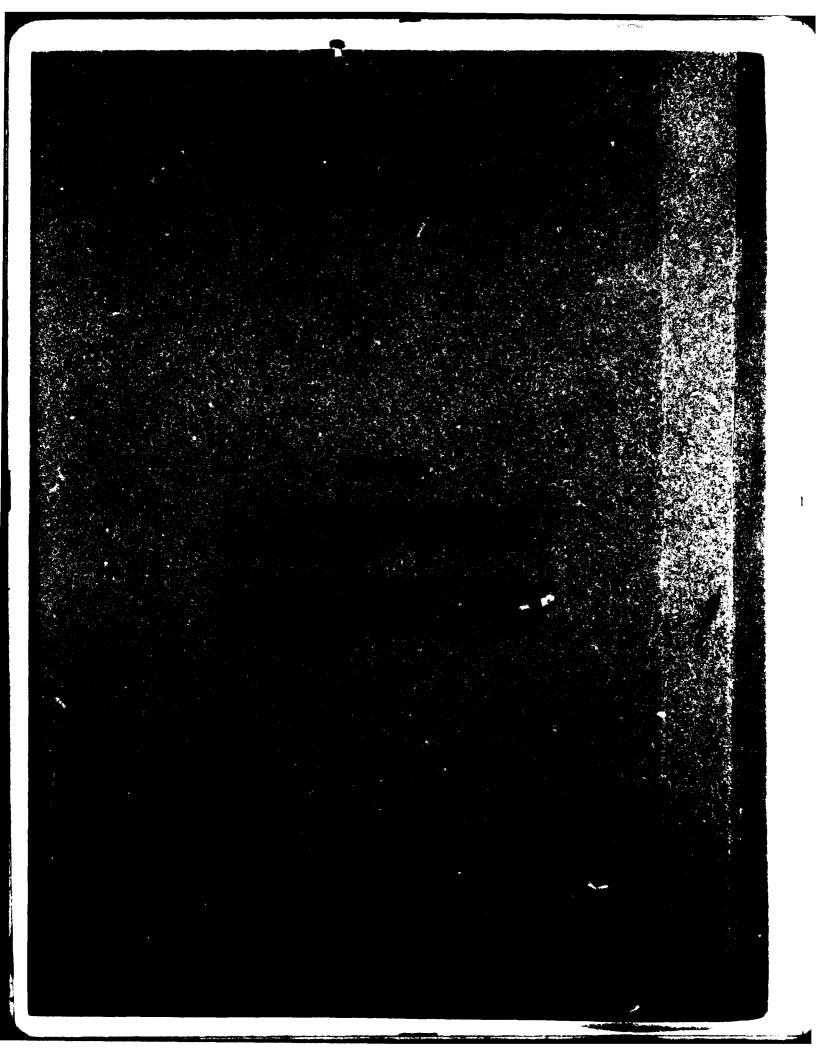


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T. REPORT NUMBER 2. GOVT ACCESSION NO	3. RECIPIENT'S CATALOG NUMBER
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Missile Numbers BN-208, BN-196, BN-214	
Round Numbers V-345/PQ-85, V-346/PQ-86,	6. PERFORMING ORG. REPORT NUMBER
V-347/PQ-87	T. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(a)	8. CONTRACT OR GRANT NUMBER(s)
White Sands Meteorological Team	DA Task 1F665702D127-02
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17. DISTRIBUTION STATEMENT (of the educact entered in Block 20, if different to Approved for public release; distribution unlimit	· · ·
18. SUPPLEMENTARY NOTES	
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19. KEY WORDS (Cantinue on reverse side if necessary and identify by block number)	
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Ch. AMERICATE STREET, an appearant able to appearant and blantife by March combant	
Meteorological data gathered for the launching of Number BN-208, BN-196, BN-214, Round Numbers V-34! V-347/PQ-87 are presented in tabular form.	the 19319A MLRS, Missile 5/PQ-85, V-346/PQ-86,
	j
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INTRODUCTION

19319A MLRS, Missile Numbers BN-208, BN-196 and BN-214, Round Numbers V-345/PQ-85, V-346/PQ-86 and V-347/PQ-87, were launched from LC-33, White Sands Missile Range (USMR), New Mexico, at 1130:00, 1130:05 and 1130:10 MDT, 10 Oct 82. The scheduled launch times were 1105:00, 1105:04.5 and 1105:09 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature $({}^{O}C)$, relative humidity, dew point $({}^{O}C)$, density (gm/m^3) , wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

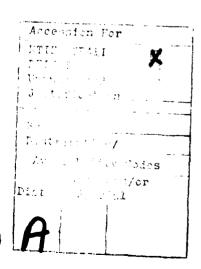
b. Upper Air

(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE
WSD 2km
DON 2km

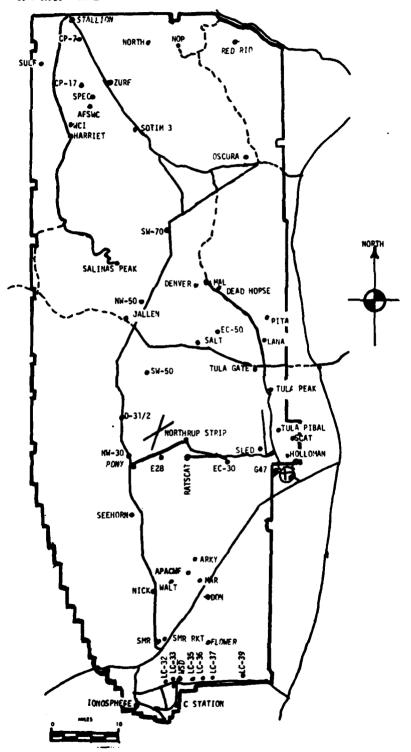
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

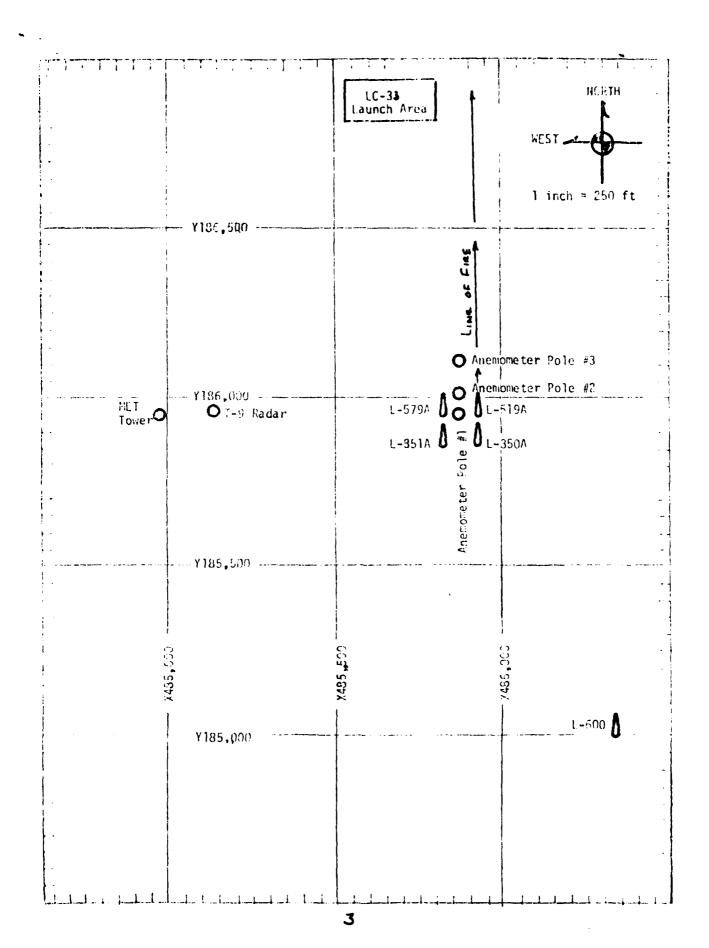
SITE AND TIME LC-37 0800 MDT WSD 0900 MDT LC-37 1100 MDT





WSMR METEOROLOGICAL SITES





PPOJECT SURFACE OBSERVATION

TABLE	_							STATION LC-33 E & A	33 E & A		
DATE 19	Oct 82	82	1				^	(= 484,982.64	.	X= 484,982.64 Y= 185,957.73 H= 3995.00	3995.00
TIME TO TI	PRESSUPE TE	TE:PE	TURE	DEW POINT	OINT OC	PELATIVE HUMIDITY	χω/π ₉	DIRECTION degs In	WIND SPEED kts	CHARACTER kts	VISIBIL-
1130	882.0		20.6		-1.9	-1.9 22 .	1044	010	2		50
									5		

	-					
	PENADRE					
	۵	HGT				
	d LAYE	A:T TYPE HGT	_		-	
	~	A:T				
	O.	HGT	CI 25,000			
CLOUNS	d LAYE	AMT TYPE HGT	CI			
	2n	AMT	1			<u> </u>
	c.	HGT	13,000			
	1st LAYER	TYPE	AC 113,			
	.\$	AMT	0			
	08STRUCTIONS	TO VISIBILITY				

 PSYCHRONETRIC COMPUTATION

 TIME:

 1130

 WET BULB TEMP.

 WET BULB DEPR.

 TI.3

 OEW POINT

 RELATIVE HUMIO.

 22

TABLE 2 LC-33 FIACO POLE AREMOMETER MEASURED WITHOUT

	POLE #1 X485,874 Y185,958 84018.74 38.7 ft	8.90 4		POLE #2 X485,87 Y186.01 H4033.5 53.0 ft	4.29 2.00 7		POLE #3 X485,87 Y186,11 H4063.9 83.6 ft	7.29 6. 06 2	
	T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
Ţ	- 30	005	05	T - 30	011	05	T - 30	005	06
Ţ	-20	005	_04	T-20	009	04	T -20	006	06
T	-10	005	04	T-10	004	04	T-10	006	05
	0.0	005	04	T _{0.0}	004	04	T _{0.0}	003	05
	+10	005	07	T+10	007	03	T ₊₁₀	003	04

TABLE	3	LC-33	METEOROLOGICAL	TOWER	ANEMOMETER	MEASURED WINDS	(202	FT	TOWERY
							,		,

LEVEL #1, 12 X484,982.64		3, H3983.00 (base)	LEVEL #2, 62 X484,982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
I-30	046	03	T-30	030	03
T-20	045	02	T-20	013	63
7 10	033	02	T-10	352	04
T O.0	039	03	T _{0.0}	003	04
T+10	026	06	T+10	003	05

LEVEL #3, 10 X484,982.64		3, H3983.00 (base)	LEVEL #4, 20 X484,982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T 30	050	04	T-30	045	05
F 20	006	05	T-20	019	08
T -10	018	06	T-10	034	08
TD.0	020	06	T0.0	022	07
T -10	032	04	T+10	020	06

^{*} POLE #1 DIRS. ARE ESTIMATED.

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 19 Oct 82

SITE: WSD

TIME: 1130 MDT

WSTM COORDINATES:

X = 488,852.29

Y = 184,982.45

H=3,993.75

SITE: DON

.... 1120

TIME 1130 MDT

WSTM COORDINATES:

X = 511,988.37

Y= 247,396.36

H= 3,996.83

LAYER MIDPOINT	DIRECTION	SPEED	LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS	METERS AGL	DEGREES	KNOTS
SURFACE	360	04	SURFACE		CALM
150	018	07	150	001	04
210	019	08	210	007	06
270	018	09	270	014	80
330	017	09	330	018	10
3 9 0	018	10	390	015	11
500	023	10	500	007	12
650	022	09	650	349	10
800	010	09	800	334	10
950	356	08	950	319	10
1150	304	06	1150	305	10
1350	286	08	1350	305	11
1550	293	09	1550	306	12
1750	304	80	1750	297	14
2000	298	12	2000	286	80

TABLE 5

AIMING AND T-TIME COMPUTER MET MESSAGES 19 Oct 82

LC-37 080 METCM13240 1914001248 00302001 01626008 02637007 03543012 04523025 05521026 06514014 07509017 08475017 09459021 10470028 11468035	63	NSD 0900 NETCM13240 1915001228 00000000 01387001 02023006 03606007 04519019 05515027 06520019 07482014 08470020 09473026 10484029 11482033 12483037	64
12470040	24840445	12403037	

UCONETIC COOKUINATES 32.4U175 LA1 DEG 106.51252 LOW DEG															
A I A	REL NOM. PERCENT	55.0	0.64	32.0	17.0	10.0	19.0	18.0	17.0	17.0	16.0	19.0	18.0	16.0	27.0
STORIFTCANT LEVLL DATA 2920180105 LC-37 TABLE 6	TEMPERATUNA AIR DEWPOINI DE GNEES CENTIGKALE	6-1-	2.6	2•2	+.Q-	-9.1	-11.7	-15.5	-17.7	-19.9	2.47-	-47.3	48.7	-32.4	-35.3
STGRIFTG 29 LC- TABL	TEMPE AIR DEGREES	7.0	13.1	19.3	19.2	15.0	11.0	7.5	5.4	2. 6	-1.8	-7.A	-8.8	-11.7	-21.4
1.S.L	PRESSURE GROWETRIC ALTITUDE ILLIBARS MSL FEET	4051.4	4389.2	4706.3	#•026h	7366.8	9087.5	10340.1	11559.6	13n06.9	14085.4	18400.0	19159.3	20840.4	24718.2
4051,77 FEET HSL 0800 MJT	PRESSURE NILLIBARS	478.6	467.8	858.0	0.05,0	78n.2	733.N	700.0	0.699	633.7	59h.1	515.1	500.0	467.9	C C C C C
STATION ALTITUDE 405) 19 OCT. H2 ASCENSION NO. 105															

	117 FFET WSL 1800 MUT	NSL	_	14PEP A1K UNIA 2920180105 LC-37	۸۱،۷۵		vEOUL T1	O INA
				TABLE 7			106.	106.31232 LON DEG
	HPE	TEHPERATUPE	KEL . HI 191	UFINSITY	SPLED OF	#INU DATA	4	Incex
ييا `	AIK DFCREES C	DEWPOINT CENTIGRANE	PERCENT	OM/CURIC METER	SOUND	JIKECTION	SPEEU NNOTS	OF REFWACTION
	7.0	-1.9	53.N	10001	0.799	1/0.0	1.0	1.000269
_	5.3	ੜ•∛	43.1	1040.0				1.000206
_	9.1	-F.+	17.0	1010.3				1.000242
	8.8	-7.0	17.2	4.506	-			
-	7.4	-7.6	17.4	940A6				
Ē	6.5	-4.1	17.6	\$.0.yr	0.090			1.100230
_	5•6	-8.7	17.H	1.250				1.000227
~	4.7	-9.3	18.1	6.56.5	5.1 40			
-	3.5	-10.0	1 H •	925.				1.000219
~	2.4	-10.8	18.7	012.4		293.7	25.6	~
=	2!	-11.6	13.1	1.60%		292.H	25.5	-
J 7	٠٠,	-12.9	18.7	898.0		V-142	25.4	1.000208
E r	V • • • • • • • • • • • • • • • • • • •	C+14-2	18.5	0.0		C+142	74.4	~
•	D (-15.8	6.77	3 - trust		271.6	21.7	1.000201
ט פ	2.5	-16.7	17.5	カ・ローな		5.262	0.61	
7 .) u	C • / T -	0.71	0.700		0.147		#61000 · 1
7 17	7 4 6 7	1001	17.0	0 d	0 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 ·	7.07	15.6	1.000191
۰ ۱		1001	17.0	H 100 H		1 /2°	15.7	• -
	. t	-21.1	16.7	786.5		78.5	15.9	•
	٠.	-22.2	16.5	1777.0		24.5	10.2	٠, ٦
•	6	-23.4	16.2	765.B		7.60%	16.7	-
7	-2.0	-24+3	16.1	754.4		€ 04 • 3	17.3	-
ì	-2.8	-24.7	16.5	742.3		2002	18.2	-
1	-3.7	-25.2	17,0	730.4	_	<0.002	19.9	1.000167
ī	9.4	-25.6	17.4	710.7		200.3	21.6	1.000164
ï	10.4	-26.0	17.8	1.07		ŋ•¡a²	23.5	1.000161
ĩ	5 · 0 ·	-26.5	18.2	9.069		1.707	25.9	1.300159
1	1./-	-27.0	1A.7	7. p.c.		1.40,2	28.3	1.000156
í	-7-9	-27.5	18.9	673.0		41.07	30.5	1.000153
ĩ	-8.6	1.R.	18.2	662.2		7.40.7	32.7	1.000151
ĭ	***	-29.5	17.6	651.3		ດຸເດັ	34.9	1.00148
7	-10.3	-30.5	17.0	2.0 0%		£0503	36.1	1.000145
ī	-11.1	-31.0	16.4	5.00 o		2.502	36.9	1.000143
ī	-12.1	-32.4	16.5	600.0	t29.5	7.63.0	37.8	1.000140
ī	7051-	-32.6	17.9	610.	0.020	9•¢07	38.2	1.000138
ï	-14.6	-32.)	19.3	601.4		9.402	38.7	1.000136
ī	-15.9	3.2	20.7	502.5				1.000134
i	1.71-	9.45	.5.1	54.4c				1.000132
1	1.0.1	-34.1	23.5	5.476	0.470			1.000130

XX WITH DATE INVELTO DUE TO MISSING RAM STAUTH AND LEBERTOW ANGLESS

TION AL	STATION ALTITUDE 4051,37 FEET MSL 19 UCT. 62 ASCENSION 140, 105	5833 FE	FT MSL		7926100105 LC-37 TABLE 7 Cont'd	os ont'd		J 106	*EQUETIC COORDINATES 32-48175 LAT DEG 186-31232 LON DEG
ETRIC ITUDE FEET	GEOHETRIC PRESSURE ALTITUDE MSL FEET MILLIUARS	TE: A I R DE SREES	TENHERATURE H AIR DEWPOINT F DEGREES CENTIGRADE	REL.Him	REL-HIPM DENSITY SPEED OF PERCENT GWZCHBIC SOUND METER NIOTS		LIND DATA UIRECTIUN SPEED LEGREES(IN) KNOTS	SPEED KNOTS	INDEX OF REFRACTION
24900.0	411.8	-19.6	-34.6	25.0	565.0 557.0	565.0 020.4 557.0 018.9			1.000128

GEOGETIC COMUINATES 32.40175 LAT DEG 106.31232 LON DEG	WIND DATA	(TR) KNOTS					15.9					
			0.6666	0.6666	9.56,	291.7	287.7	8.692	260.3	263.8	264.3	
vi Ls ci	KLL. HUM.	ר היני. או	17.	10.	19.	١٠.	17.	10.	18•	10.	19.	27.
AI.DATORY LEVILS 2920180103 LC-37 TABLE 8	TESTLANTURE	DESPEES CENTIONAL	#•·y-	-H.5	-10.7	-15.5	-18.9	-23.2	B•44-	-28.7	-32.6	-35.3
.7	TEST	FSPLES (19.2	16.2	12.5	7.2	3.9	£.1	6.4-	-8·8	-14.1	-21.4
T MSL	PRESCURE GEOPOTENTIAL	FEET L	4967.	6664.	6450	10330.	12317.	14435.	16693.	19132.	21785.	24677.
STATION ALTITUDE 4051.77 FELT MSL. 19 UCT. H2 ASCENSION NO. 105	PRESCUME G	MILLIPAKS	7.40gH	r•90d	750.6	1000	F.50.4	0.00g	£-0355	€00°	450.5	d+20h

XX WIND DATE INVILID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

IALTITUDE 3989.00 FEET MSL 82 ON NO. 508	MSL	SIGNIFIC PS WHI	SIGNIFICANT LEVLL DATA 2920020505 WHITE SANDS TABLE 9	A 1 A	GEODETIC COUNDINATES 32-40043 LAT DEG 106-37033 LON DEG
PRESSURE "ILL IBARS	PRESSUME GFONETRIC ALIITUDE ILLIGARS MSL FEET	TEMPE AIR DEGREES	TEMPERATURE AIR DEWPOIN! DEGREES CENTICKADE	KEL.IIUM. PERCENT	
0.188	3084.0	13.0	ئ ئ	0.00	
0.473	4274.9	18.1	9.0-	18.0	
850.0	4992.5	18.6	-7.7	16.0	
€ •#€3	5516.7	18.8	- C • 3	15.0	
740.2	8339.3	11.3	-13.6	16.0	
0°002	10159.9	7.8	-17.2	15.0	
69.18	11868.2	3.9	-17.0	20.07	
615.5	13796.3	1.7	-22.9	74.0	
571.9	15726.4	-2.6	-20.4	14.0	
555.1	16502.4	3.6-	-25.5	16.0	
53v.1	17694.6	٠. ۲.	-26.3	15.0	
500.0	19192.0	-8.7	-30.6	15.0	
452.8	21690.7	-14.6	-34·B	16.0	
423.8	23327.7	-18.5	4.75-	31.0	
0.004	24737.3	-21.8	-35.7	27.0	

STATION ALTI: 19 UCT. H2 ASCENSIUN NO	TITUDE 39. NO. 508	89.cn FEFT 900 MDT	FT ISL		UPPER AIR UATA 292002050 WHITE SAULS TABLE 10	۸ ام ا		vEODETIL 32•4(106•3∫	DETIL COONDINATES 32-40043 LAT DEG 106-37033 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEM LI ^{I!} Degmees	TEMPERATURE 1' DEWPOINT EES CENTIGRADE	RCL.HUM. Fercent	DFNGITY GMZCUPIC METEP	SPEED OF JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN	LIND DATA LIRECTION S	TA SPEEU KROTS	INDEX OF REFRACTION
3989.0	881.0	13.0	# ° L	0.09	1066.4	660.5	÷.	•	1.000260
4000°C	980.7	13.2	5.2	58.4	1067.3	099	12.0	•	1.000279
4500.n	865.0	18.3	5.4-	17.4	1032.5	Ī	12.0	2.3	1.000245
5000.0	8.648	18.6	-7.7	16.0	1013.1	-	12.0	4.5	1.000241
5500.0	834.8	18.8	-8-3	15.0	L. huts	1,0001	12.0	•	
0.0000		17.7	-0.1	15.1	0.00 yr		357.5	6.5	1.000232
0.0000		16.6	o• c -	15.3	9,040		349.0	6.8	•
7000.0		15.5	-10.7	15.4	9.53.4		364.0	9.5	1.000225
7500.0		14.3	-11.4	15.6	₹•0₦6		295.8	14.2	
9000 P	762.9	13.2	-12.2	15.7	927.1		.93.1	18.9	
a500.0		12.1	-13.0	15.9	914.8		7.767	23.7	1.000214
900h.n		10.9	-14.0	15.9	901.4		221.5	25.9	1.000211
9500.0		æ. ••	-15.1	15.6	1.00H		9.067	27.0	1.000247
100001		9.8	-16.3	15.2	870.1		590∙6	25.6	1.000203
10500.0		7.4	-17.1	15.5	863∙6		2,762	23.5	1.000290
11000.0		6.1	-17.9	17.1	851·6		の・サカジ	20.9	1.000198
11500.0		6.4	6.41-	1.81	840.0	4.640	5-16-7	19.2	1.000145
12000-0	658.5	3.7	-17.3	19.6	A21.1		4.40%	17.6	1.000192
12500.0		3.2	-18.8	18.0	814.1	5.450	276.6	16.2	1.000188
13000.0		5.6	-20.3	16.5	800°C	-	271.7	5	1.000164
٠		2.0	-21.9	14.9	787.4	_	9•80Z	14.5	1.000181
14000.0		1.2	-23.3	14.0	2.477		201.4	15.7	
14500.0	660	•	-24.1	14.0	763.5	7.44.7	7.407	18.4	1.000174
15000.0		-1.9	1-25.0	14.0	752.2		4.202	21.3	1.000172
15500.0		-2.1	-25.9	14.0	741.0	C+1+7	5.50°	23.8	1.000109
10000-0	265.9	-2.9	124.0	14.7	7.3.1		2.02.2	25.1	1.000160
10500.0		13.4	-25.6	16.0	710.6		707	26.0	1.000164
17000.0		**	-24.7	15.0	70.2.6	636.8	259.1	26.9	1.000161
17500.0		-5.5	-27.R	15.2	4.4°		2,11,2	28.5	1.000158
14000.r		-6.5	-28.8	15.0	6.P.4.0		275.3	30.0	1.000155
18500.0	513.7	-7.4	-29.5	15.0	673.1		273.0	31.7	1.00153
19000.1	503.8	-8.3	-30.3	15.0	662.5		272.2	32.7	1.000150
19500.0	495.9	サ・ケー	-31.1	15.1	5.749		271.0	32.7	1.000148
2000000	464.2	9.01-	-31.9	15.3	646.0		5.0.3	33.3	1.000145
<0.00502	474.7	-11.8	-32.B	15.5	632.5		571.6	34.0	1.000143
21000.0		-13.0	-37.6		655.9		273.2	35.0	1.000141
•	456.	-14.1	134.4	15.0	613.5	-	273.2	35.3	1.000138
•		J.	-31.7	18∙₽	664.1		272.5	35.9	1.000137
22500.0	#3B*	-16.5	-32.5	23.4	/ · hus	7.420	1.5</td <td>36.9</td> <td>1.000135</td>	36.9	1.000135
2.000cz	424	-17.7	-31.7	23.0	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		ん・かのと	38.8	1.000133

GEODETIL COURDINATES 32.40043 LAT DEG 106.37033 LON DEG	WIND DATA INDEX DIRECTION SPEED OF ILEGREES(IN) KNOTS HEFRACTION	1.000131
UPPER AIR DAIA 2920020506 WHITE SANDS TABLE 10 Cont'd	REL.HUM. DENSITY SPEED OF PERCENT GM/CURIC SOUND METER KNOIS	576.4 621.3 567.3 619.9 558.4 616.4
5	HEL . HUM. PERCENT	30.5 29.1 27.7
3989.r0 FEFT MSL 0900 MDT 18	TEMPERATUPE AIR DEWPOINT DEGREES CENTIGRADE	-18.9 -31.9 -20.1 -33.4 -21.2 -34.9
	GEGMETRIC PRESSURE ALLITUDE MSL FEET MILLIDARS I	#20.8 #12.3
STATION ALTITUDE 19 OCT. 82 ASCENSION NO. 50	GEOMETRIC ALLITUDE MSL FEET	23500.0

SIGNIFICANT LEVEL JAIN	29500 <u>5</u> 0005	WHITE SALLS	TABLE 12	
	STATION ALTITUDE 3989-50 FEET HISL	19 UCT. 82 1100 MDT	1Striisiun 140. 599	

% CODE COUNTINATES 32.40043 LAT DEG 106.57033 LON DEE

HELLINM.	0.42 17.00 17.00	7.000 7.000 7.000 7.000	26.0 26.0 26.0 26.0
TEMPERATURE AIR DEMPOIRE GPEES CENTIONAUE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
TEMPE AIR DEGPEES	21.0 18.8 16.3	. n n n i	
GEOMETRIC ALTITUDE S MSE FEET	3989.0 5026.5 6207.6	11960.3 12320.1 13019.4	17536.8 19210.7 21928.6 22758.5 23164.2 24743.7
PRESSURL	831.8 850.0 814.9 706.0	0.000 0.000 0.000 0.000 0.000	5552 5003 5003 448.8 454.0 426.9

STAIION ALTITUDE 19 UCT. 82 ASCENSIUN ND. 5	. 9	3989.00 FEET 1100 MDT 9	T F.SL	-	UPPER AIP DAI 2929AN209 WHITE SANDS TABLE 13	4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		9€UDETIC 32.4u 106.37	DETIC COOKGINATES 32.4vU43 LAT DEG 106.37033 LON DEG
GEOMETRIC PRESSUME ALTITUDE NSL FEET MILLIBARS	SURE	IENP AIK DECKEES	IEHPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	UENSITY GWZCUBIC METER	SPEEU OF SOUND KNOTS	*IND DATA JRECTION S LEGREES(IN) K	1A SPEED KNOTS	INDEX OF MEFRACTION
	-	0.14	E • -	24.0	1041.7	11.600	300.0	4.1	1.000258
	1.5	21.0	7:-	23.9	1041.5	_	7.	4.1	1.000258
	860.0	19.9	2.5-	20.6	1027.6		7.4	5.7	1.000250
85	850.8	18.9	-6.6	17.2	1015.5	6.090	6. 5	7.3	1.000242
æ	B.C.	17.8	-7.5	17.0	039.1	Ī	7.9	8.9	1.000238
82	1.0	16.7	18.4	17.0	985.1		9·6	4.6	1.000234
	6.3	15.6	-0-1	17.3	971.5	662.5	D.	10.0	1.000230
	1.7	- t · t	L.0-	17.8	957.7	061.1	4.5	9.5	1.000227
	1°4	13.2	-10.4	13.2	D-1116	1.699	2.645	7.7	1.000223
	5.5	12.0	-11.0	18.7	931.2	050.3	324.9	9. 9	1.000220
8500.0 74	9.5	10.9	-11.7	19.5	914.2	650.9	302.2	6.7	1.000216
	6.9	7.6	-12.4	19.7	305.5	0550	290.3	7.9	1.000213
	2.7	3.5	-13.1	20.2	60709	654.6	301.5	4.4	1.000210
	109.6	7.3	-13.8	20.6	9A0.5	052.8	3.863	12.0	1.000206
	696.7	6.2	-14.6	20.8	0.37R		7.69°	15.1	1.000203
	3.8	5.3	-15.7	20.5	8.4.B	050+4	۲۰۲۲۶	18.2	1.000199
	1.2	٠. د.	-16.8	10.6	D.11.0	_	271.1	20.4	1.000196
	8.8	3.5	-16.7	21.1	926.9	2.000	267.0	20.8	1.000193
12500.0 64	5.0	2.8	-11.3	34.6	614.9		0.502	20.8	1.000194
	4.5	2.3	-20.4	16.7	801.6		7-097	21.0	1.000185
	622.6	1.7	-21.2	16.2	70.0.6	1.040	20102	21.3	1.000181
	6.0	1.1	-21.6	16.4	27.5.0	_	Ç.00.5	21.5	1.000178
	7.6	*	-22.0	10.7	762.8		707	23.3	1.000175
15000.0 58	584.2	~ .	-22.3	16.9	759.5		203.00	26.9	1.000172
		0.7-	0.50	6.0	75.00	6.750	Cator.	40,0	1.000166
> 5		F - C -	# · 102 -	10.1	7.5.2		\0,7°C	4.00	1.000164
	8	-3.7	-25.7	1642	70407		72.0	20.4	1.00016.1
	4.5	9.5-	-26.5	15.0	693.0		76.0	27.6	1.000158
	4.5	-5.9	-27.8	15.7	682.B	_	277.6	25.6	1.000155
14500.0 51	0.1	-7.1	0.02-	15.4	675.9	_	5.77.4	23.9	1.000153
אָרֶני האָרֶני	4.1	4.8-	-30.2	15.1	0.540		4.17.	25.1	1.000150
	6.9	9.6-	-30.5	16.2	650.1	-	270.7	26.6	1.000148
	9.4	-10.3	-30.3	18.2	643.1		274.2	28.0	1.000146
	5.1	-11.9	-30.1	20.5	635.3		2.0.2	29.0	1.000144
	46,0.7	-13.1	-30-1	22.2	623.0	_	20802	29.7	1.000142
	ر د	-14.3	-3u•2	24.3	614.1		2667	30.2	1.000140
	7.5	-15.5	-30.2	56.9	6.409		6.0/2	30.7	1.400138
22500.0 43	430.6	-16.A	-20.3	32.9	595.7	_	n•90>	32.5	1.000136
	8	-18.1	-30.9	31.2	5A6.7	022.3	£002	34.8	1.000133

STATION ALTITUDE 3 19 UCT. B2 ASCENSION NO. 519	.TITUDE 59/	3989.00 FILT HSL 1100 MDT	T HSL	_	UPPER AIR DATA 2920A20505 WHITE SANDS TABLE 14	000 000 000 000 000 000 000 000 000 00		∘E00ET1 32• 106•	JEODETIC COORDINATES 32-40043 LAT DEG 106-37035 LON DEG	
GEO.IETRIC PRESJURE ALTITUDE	PRESJURE	TENY 11R	C PRESSURE TEMERATURE	REL.HUM. PERCENT	REL.HUM. DENSITY SPLED OF PERCENT GMZCURIC SOUND	SPLEU OF	LINECTION SPEED	NTA SPEEU	INDEX	
HSL FEET	HILLIUARS	DEGREES	CENTIGRADE	ı	1 LE K	K4013	ILGREES IN	SIONA	KEP RACT 101	
235n0.n	421.1	1.61-	-33.2	24∙0	577.8	1.020			1.000131	
24000.0	414.5	7-00-7	1-34.4	28.0	569.1	569.1 019.1			1.000129	
C4500.0		->2·0	-35.5	2A.0	560.5	017-4			1.000127	

LEVELL.	60411
MANDATOLY	2900cec

WHITE SANDS TABLE 14 Cont'd

STATION ALTITUDE 3989100 FELT MSL 19 UCT. 82 ASCENSION NO. 300

GEODETIC COCHUINATES SZ-4UN43 LAT DEG 106-37033 LON DEG

			DATING.	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J 771 *	412
PRESSUME GE	GEOPOIFMITML	_	VIE DEMPOINT	P.E.RCE.M.	UINECTION	SPEED
MILLINARS	FEET	DEGRETS C	ENTIGRAVE		()EGNEES(TN) KNO	KNOTS
ì	6	9,00	-6.7		٥. د	7.3
C. 130.	2053	0			4	5.5
0.000	6716.	15.1	7	:		
4500	Aug3.	10.0	-11.7	17.	304.4	• •
2007		7	7 7 7 1		\$016×	7.5
100·0	10363	•			0.000	8.0%
6.50 · n	12343.	3.0	÷ ;	• •	5	
	10000	•	21.9		261.3	7.0
10.5			7		1.690	27.3
550.0	16735		7.0		, i	75.7
د 00 و د	19184.	6.8	-30.	• • • • • • • • • • • • • • • • • • • •	7.0.2	40.
0.50.0	21828.	-15.1	-30.4	, ,	1 (1) 2	
r.001	24707.	-22.7	-36.1	٠		

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